

# CARD/PRINT - INSTRUCTION MANUAL

## CORRECTIONS AND ADDITIONS

CHARACTER STRING SENT	LISTING SYMBOL	SYMBOL DEFINITION
CHR\$(1)	"(\$1)"	UNKNOWN CHARACTER VALUE
CHR\$(2)	"(\$2)"	UNKNOWN CHARACTER VALUE
CHR\$(3)	"(\$3)"	UNKNOWN CHARACTER VALUE
CHR\$(4)	"(\$4)"	UNKNOWN CHARACTER VALUE
CHR\$(5)	"(WH)"	WHITE
CHR\$(6)	"(\$6)"	UNKNOWN CHARACTER VALUE
CHR\$(7)	"(\$7)"	UNKNOWN CHARACTER VALUE
CHR\$(8)	"(DS)"	DISABLE SHIFT/COMMODORE KEY
CHR\$(9)	"(ES)"	ENABLE SHIFT/COMMODORE KEY
CHR\$(11)	"(\$11)"	UNKNOWN CHARACTER VALUE
CHR\$(12)	"(\$12)"	UNKNOWN CHARACTER VALUE
CHR\$(14)	"(SL)"	SHIFT TO LOWER CASE
CHR\$(15)	"(\$15)"	UNKNOWN CHARACTER VALUE
CHR\$(16)	"(\$16)"	UNKNOWN CHARACTER VALUE
CHR\$(17)	"(CD)"	CURSOR DOWN
CHR\$(18)	"(RV)"	REVERSE ON
CHR\$(19)	"(HM)"	HOME CURSOR
CHR\$(20)	"(DL)"	DELETE
CHR\$(21)	"(\$21)"	UNKNOWN CHARACTER VALUE
CHR\$(22)	"(\$22)"	UNKNOWN CHARACTER VALUE
CHR\$(23)	"(\$23)"	UNKNOWN CHARACTER VALUE
CHR\$(24)	"(\$24)"	UNKNOWN CHARACTER VALUE
CHR\$(25)	"(\$25)"	UNKNOWN CHARACTER VALUE
CHR\$(26)	"(\$26)"	UNKNOWN CHARACTER VALUE
CHR\$(27)	"(\$27)"	UNKNOWN CHARACTER VALUE
CHR\$(28)	"(RD)"	RED
CHR\$(29)	"(CR)"	CURSOR RIGHT
CHR\$(30)	"(GN)"	GREEN
CHR\$(31)	"(BL)"	BLUE
CHR\$(128)	"(\$128)"	UNKNOWN CHARACTER VALUE
CHR\$(129)	"(OR)"	ORANGE
CHR\$(130)	"(\$130)"	UNKNOWN CHARACTER VALUE
CHR\$(131)	"(\$131)"	UNKNOWN CHARACTER VALUE
CHR\$(132)	"(\$132)"	UNKNOWN CHARACTER VALUE
CHR\$(133)	"(F1)"	F1 FUNCTION KEY
CHR\$(134)	"(F3)"	F3 FUNCTION KEY
CHR\$(135)	"(F5)"	F5 FUNCTION KEY
CHR\$(136)	"(F7)"	F7 FUNCTION KEY
CHR\$(137)	"(F2)"	F2 FUNCTION KEY
CHR\$(138)	"(F4)"	F4 FUNCTION KEY
CHR\$(139)	"(F6)"	F6 FUNCTION KEY
CHR\$(140)	"(F8)"	F8 FUNCTION KEY
CHR\$(141)	"(SR)"	SHIFTED RETURN
CHR\$(142)	"(SU)"	SHIFT TO UPPER CASE
CHR\$(143)	"(\$143)"	UNKNOWN CHARACTER VALUE
CHR\$(144)	"(BK)"	BLACK
CHR\$(145)	"(CU)"	CURSOR UP
CHR\$(146)	"(RO)"	REVERSE OFF
CHR\$(147)	"(SC)"	SCREEN CLEAR / HOME CURSOR
CHR\$(148)	"(IN)"	INSERT
CHR\$(149)	"(BR)"	BROWN
CHR\$(150)	"(LR)"	LIGHT RED
CHR\$(151)	"(G1)"	GREY 1
CHR\$(152)	"(G2)"	GREY 2
CHR\$(153)	"(LG)"	LIGHT GREEN
CHR\$(154)	"(LB)"	LIGHT BLUE
CHR\$(155)	"(G3)"	GREY 3
CHR\$(156)	"(PU)"	PURPLE
CHR\$(157)	"(CL)"	CURSOR LEFT
CHR\$(158)	"(YL)"	YELLOW
CHR\$(159)	"(CY)"	CYAN
CHR\$(160)	"(SS)"	SHIFTED SPACE

## CARD/PRINT - INSTRUCTION MANUAL

## CORRECTIONS AND ADDITIONS

CARD/PRINT - INSTRUCTION MANUAL

CORRECTIONS AND ADDITIONS

ON PAGE 5

4. IF YOU ARE USING A CASSETTE, UNPLUG IT FROM THE COMPUTER. PLUG THE CONNECTOR ON THE END OF THE THIN WIRE INTO THE CASSETTE PORT ON THE COMPUTER BEING SURE THAT THE CONNECTOR FACES DOWN, AND THE SMALL CIRCUIT BOARD IS ABOVE THE CONNECTOR. NOW, PLUG THE CASSETTE ONTO SMALL CIRCUIT BOARD AND IT WILL OPERATE NORMALLY.

SHOULD READ:  
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4. PLUG THE CONNECTOR ON THE END OF THE THIN WIRE INTO THE CASSETTE PORT ON THE COMPUTER BEING SURE THAT THE CONNECTOR FACES DOWN, AND THE SMALL CIRCUIT BOARD IS ABOVE THE CONNECTOR. NOW, PLUG THE DATASSETTE IF YOU ARE USING ONE, ONTO SMALL CIRCUIT BOARD AND IT WILL OPERATE NORMALLY.

CARD/PRINT - INSTRUCTION MANUAL

CORRECTIONS AND ADDITIONS

ON PAGE 25

By using these codes it should be easier to decipher the sometimes cryptic Commodore program listings. The SPECIAL LISTING MODE has three formats:

OPEN x,4,2 This format will give you a listing in the upper case only mode with auto line feed added.

OPEN x,4,3 This format is also upper case only but without the line feed function.

OPEN x,4,6 This format (my favorite) lists programs in the upper and lower case and adds the auto line feed function.

OPEN4,4,2:CMD4:LIST <RETURN>  
PRINT#4:CLOSE4 <RETURN>

SHOULD READ:  
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To list a program type:

OPEN4,4:CMD4:LIST <RETURN>  
PRINT#4:CLOSE4 <RETURN>

## CARD/PRINT - INSTRUCTION MANUAL

### CORRECTIONS AND ADDITIONS

#### SPECIAL LISTING CODES

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A listing of a Commodore program usually contains some strange code symbols referring to functions such as color changes and cursor movements. These codes may mean other things to your printer however. For example if an Epson MX-80 printer was trying to list a program containing the home cursor symbol CHR\$(19), it would stop dead because to the Epson CHR\$(19) means stop printing until you are told to start again. So unless we make some changes I'm sure you would see how we could wind up with some strange looking program listings and unhappy programmers.

So, with the SPECIAL LISTING CODES we have not only prevented disastrous listings, we made them easier to read. Instead of symbolic representation with reversed hearts and weird graphics, we substituted letters enclosed in brackets which are much more understandable in a listing.

ON PAGE 24

REPLACE THE EXISTING TABLE WITH THE NEW ONE PROVIDED.

PAGE 5

## CARD/PRINT - INSTRUCTION MANUAL

### CORRECTIONS AND ADDITIONS

ON PAGE 13

One abnormality that must be covered now is the inability to respond to a print statement with no information after it. This is usually used to print a blank line, (ie. PRINT#4,:). To print a blank line you must print something so the computer will generate a CHR\$(13). The best statement to print is <CHR\$(10);>, but " " will work (not quite as fast however).

SHOULD BE ELIMINATED. THIS FUNCTION WILL WORK PROPERLY WITH YOUR NEW UPDATED CARD/?.

PAGE 2

## CARD/PRINT - INSTRUCTION MANUAL

### CORRECTIONS AND ADDITIONS

ON PAGE 15

- 2 listing mode  
upper case only with line feed
- 3 listing mode  
upper case only no line feed
- 6 listing mode  
upper/lower case with line feed

SHOULD BE ELIMINATED. PROGRAMS MAY BE LISTED WITH SECONDARY ADDRESSES 0, 1, 7 AND 8 AS DESIRED. THE SPECIAL LISTING MODE IS NO LONGER USED FOR PROGRAM LISTINGS IN YOUR UPDATED CARD/?.

## CARD/PRINT - INSTRUCTION MANUAL

### CORRECTIONS AND ADDITIONS

ON PAGE 23

### SPECIAL LISTING CODES

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